Extensa 4100 Series

User's Guide

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Extensa 4100 Series User's Guide
Original Issue: October 2005

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Record the model number, serial number, purchase date, and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number, and purchase information.

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Extensa 4100 Series Notebook Computer

Model number: _____

Serial number: _____

Purchase date: _____

Place of purchase: _____

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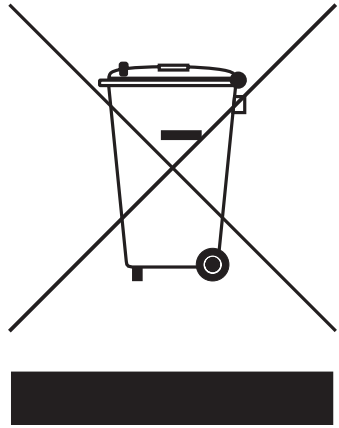
Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle.



USA

For electronic products containing an LCD/CRT monitor or display:

Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or federal laws. For more information, contact the Electronic Industries Alliance at **www.eiae.org**. For lamp-specific disposal information, check **www.lamprecycle.org**.

First things first

We would like to thank you for making the Extensa series of notebook computers your choice for meeting your mobile computing needs.

Your guides

To help you use your Extensa, we have designed a set of guides:

First off, the **Just for Starters...** poster helps you get started with setting up your computer.

The printed **User's Guide** introduces you to the basic features and functions of your new computer. For more on how your computer can help you to be more productive, please refer to the **AcerSystem User's Guide.** This guide contains detailed information on such subjects as system utilities, data recovery, expansion options, and troubleshooting. In addition it contains warranty information and the general regulations and safety notices for your notebook. It is available in Portable Document Format (PDF) and comes preloaded on your notebook. Follow these steps to access it:

1 Click on **Start**, **All Programs**, **AcerSystem**.

2 Click on **AcerSystem User's Guide**.

Note: Viewing the file requires Adobe Acrobat Reader. If Adobe Acrobat Reader is not installed on your computer, clicking on **AcerSystem User's Guide** will run the Acrobat Reader setup program first. Follow the instructions on the screen to complete the installation. For instructions on how to use Adobe Acrobat Reader, access the **Help and Support** menu.

Basic care and tips for using your computer

Turning your computer on and off

To turn on the computer, simply press and release the power button below the LCD screen beside the easy-launch buttons. See **"Front view" on page 11** for the location of the power button.

To turn the power off, do any of the following:

- Use the Windows shutdown command

  Click on **Start**, **Turn Off Computer**, then click on **Turn Off**.

- Use the power button

  You can also shut down the computer by closing the display cover, or by pressing the sleep hotkey **<Fn> + <F4>**.

  Note: If you cannot power off the computer normally, press and hold the power button for more than four seconds to shut down the computer. If you turn off the computer and want to turn it on again, wait at least two seconds before powering up.

Taking care of your computer

Your computer will serve you well if you take care of it.

- Do not expose the computer to direct sunlight. Do not place it near sources of heat, such as a radiator.
- Do not expose the computer to temperatures below 0 °C (32 °F) or above 50 °C (122 °F).
- Do not subject the computer to magnetic fields.
- Do not expose the computer to rain or moisture.
- Do not spill water or any liquid on the computer.
- Do not subject the computer to heavy shock or vibration.
- Do not expose the computer to dust or dirt.
- Never place objects on top of the computer.
- Do not slam the computer display when you close it.
- Never place the computer on uneven surfaces.

Taking care of your AC adaptor

Here are some ways to take care of your AC adaptor:

- Do not connect the adaptor to any other device.
- Do not step on the power cord or place heavy objects on top of it. Carefully route the power cord and any cables away from foot traffic.
- When unplugging the power cord, do not pull on the cord itself but pull on the plug.

- The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord. Also, the total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.

Taking care of your battery pack

Here are some ways to take care of your battery pack:

- Use only batteries of the same kind as replacements. Turn the power off before removing or replacing batteries.
- Do not tamper with batteries. Keep them away from children.
- Dispose of used batteries according to local regulations. Recycle if possible.

Cleaning and servicing

When cleaning the computer, follow these steps:

1 Turn off the computer and remove the battery pack.

2 Disconnect the AC adaptor.

3 Use a soft, moist cloth. Do not use liquid or aerosol cleaners.

If either of the following occurs:

- the computer has been dropped or the body has been damaged;
- the computer does not operate normally

please refer to **"Frequently asked questions" on page 32**.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Users are requested to follow the RF safety instructions for wireless option devices that are included in the user's manual of each RF option device.

An improper installation or unauthorized use may cause harmful interference to radio communications. Also, any tampering of the internal antenna will void the FCC certification and your warranty.

To prevent radio interference to the licensed service, this device is intended to be operated indoors, and installation outdoors is subject to licensing.

For more information about our products, services, and support information, please visit our website: **http://global.acer.com**.

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Acer Empowering Technology

Acer's innovative Empowering Technology makes it easy for you to access frequently used functions and manage your new Acer notebook. It features the following handy utilities:

- **Acer eDataSecurity Management** protects data with passwords and advanced encryption algorithms.
- **Acer eLock Management** limits access to external storage media.
- **Acer ePerformance Management** improves system performance by optimizing disk space, memory and registry settings.
- **Acer eRecovery Management** backs up/recovers data flexibly, reliably and completely.
- **Acer eSettings Management** accesses system information and adjusts settings easily.
- **Acer eNet Management** hooks up to location-based networks intelligently.
- **Acer ePower Management** extends battery power via versatile usage profiles.
- **Acer ePresentation Management** connects to a projector and adjusts display settings conveniently.

For more information, press the < e > key to launch the Empowering Technology menu, then click on the appropriate utility and select the Help function.

Acer eDataSecurity Management

Acer eDataSecurity Management is a handy file encryption utility that protects your files from being accessed by unauthorized persons. It is conveniently integrated with Windows Explorer as a shell extension for quick and easy data encryption/decryption and also supports on-the-fly file encryption for MSN Messenger and Microsoft Outlook.

There are two passwords that can be used to encrypt/decrypt a file: the supervisor password and the file-specific password. The supervisor password is a "master" password that can decrypt any file on your system; the file-specific password is assigned when you encrypt each individual file.

The Acer eDataSecurity Management setup wizard will prompt you for a supervisor password and default file-specific password. This file-specific password will be used to encrypt files by default, or you can choose to enter your own file-specific password when encrypting a file.

Note: The password used encrypt a file is the unique key that the system needs to decrypt it. If you lose the password, the supervisor password is the only other key capable of decrypting the file. If you lose both passwords, there will be no way to decrypt your encrypted file! **Be sure to safeguard all related passwords!**

Acer eLock Management

Acer eLock Management is a security utility that allows you to lock up your removable data, optical and floppy drives to ensure that data can't be stolen while your notebook is unattended.

- Removable data devices — includes USB disk drives, USB pen drives, USB flash drives, USB MP3 drives, USB memory card readers, IEEE 1394 disk drives and any other removable disk drives that can be mounted as a file system when plugged into the system.
- Optical drive devices — includes any kind of CD-ROM or DVD-ROM drives.
- Floppy disk drives — 3.5-inch disks only.

To activate Acer eLock Management, a password must be set first. Once set, you may apply locks to any of the three kinds of devices. Lock(s) will immediately be set without any reboot necessary, and will remain locked after rebooting, until unlocked.

If you do not set a password, Acer eLock Management will reset back to the initial status with all locks removed.

Note: If you lose your password, there is no method to reset it except by reformatting your notebook or taking your notebook to an Acer Customer Service Center. Be sure to remember or write down your password.

Acer ePerformance Management

Acer ePerformance Management is a system optimization tool that boosts the performance of your Acer notebook. It provides you with the following options to enhance overall system performance:

- Memory optimization — release unused memory and check usage.
- Disk optimization — remove unneeded items and files.
- Speed optimization — improve the usability and performance of your Windows XP system.

Acer eRecovery Management

Acer eRecovery Management is a powerful utility that does away with the need for recovery disks provided by the manufacturer. The Acer eRecovery Management utility occupies space in a hidden partition on your system's HDD. User-created backups are stored on D:\ drive. Acer eRecovery Management provides you with:

- Password protection.
- Recovery of applications and drivers.
- Image/data backup:
  - Back up to HDD (set recovery point).
  - Back up to CD/DVD.
- Image/data recovery tools:
  - Recover from a hidden partition (factory defaults).
  - Recover from the HDD (most recent user-defined recovery point).
  - Recover from CD/DVD.

For more information, please refer to **"Acer eRecovery Management" on page 62** in the **AcerSystem User's Guide**.

Note: If your computer did not come with a Recovery CD or System CD, please use Acer eRecovery Management's "System backup to optical disk" feature to burn a backup image to CD or DVD. To ensure the best results when recovering your system using a CD or Acer eRecovery Management, detach all peripherals (except the external Acer ODD, if your computer has one), including your Acer ezDock.

Acer eSettings Management

Acer eSettings Management allows you to inspect hardware specifications and to monitor the system health status. Furthermore, Acer eSettings Management enables you to optimize your Windows operating system, so your computer runs faster, smoother and better.

Acer eSettings Management also:

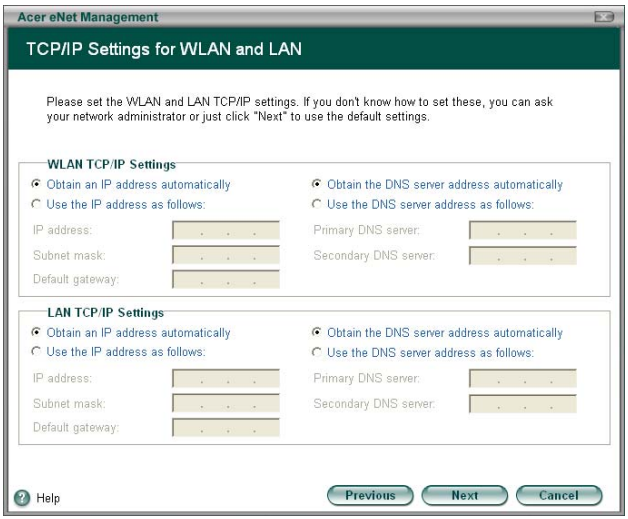
- Provides a simple graphical user interface for navigating through the program effortlessly.
- Displays general system status and advanced monitoring for power users.
- Logs when a hardware component has been removed or replaced.
- Permits you to migrate personal settings.
- Keeps a history log of all alerts that were previously issued.

Acer eNet Management

Acer eNet Management helps you to quickly and easily connect to both wired and wireless networks in a variety of locations. To access this utility, either click on the "Acer eNet Management" icon on your notebook, or start the program from the Start menu. You also have the option to set Acer eNet Management to start automatically when you boot up your PC.

Acer eNet Management automatically detects the best settings for a new location, while offering you the freedom to manually adjust the settings to match your needs, simply by right-clicking on the icon in the taskbar.

Acer eNet Management can save network settings for a location to a profile, and automatically apply the appropriate profile when you move from one location to another. Settings stored include network connection settings (IP and DNS settings, wireless AP details, etc.), as well as default printer settings. Security and safety concerns mean that Acer eNet Management does not store username and password information.


Acer eNet Management
TCP/IP Settings for WLAN and LAN
Please set the WLAN and LAN TCP/IP settings. If you don't know how to set these, you can ask your network administrator or just click "Next" to use the default settings.
WLAN TCP/IP Settings
Obtain an IP address automatically
Use the IP address as follows:
IP address:
Subnet mask:
Default gateway:
Obtain the DNS server address automatically
Use the DNS server address as follows:
Primary DNS server:
Secondary DNS server:
LAN TCP/IP Settings
Obtain an IP address automatically
Use the IP address as follows:
IP address:
Subnet mask:
Default gateway:
Obtain the DNS server address automatically
Use the DNS server address as follows:
Primary DNS server:
Secondary DNS server:
Help
Previous
Next
Cancel

Acer ePower Management

Acer ePower Management features a straightforward user interface. To launch it, select Acer ePower Management from the Empowering Technology interface, or double-click the Acer ePower Management icon in the task tray.

AC mode

The default setting is "Maximum Performance." You can adjust CPU speed, LCD brightness and other settings, or click on buttons to turn the following functions on/off: Wireless LAN, Bluetooth, CardBus, Memory Card, Audio, and Wired LAN.

DC mode

To suit your usage, there are four pre-defined profiles — Entertainment, Presentation, Word Processing, and Maximum Battery. Or, you can define up to three of your own profiles.

Create new power scheme

1 Assign a name for the new scheme.

2 Choose existing scheme to use as a template.

3 Select whether used for mains (AC) or battery mode.

4 Choose which power options best fit your needs, then click OK.

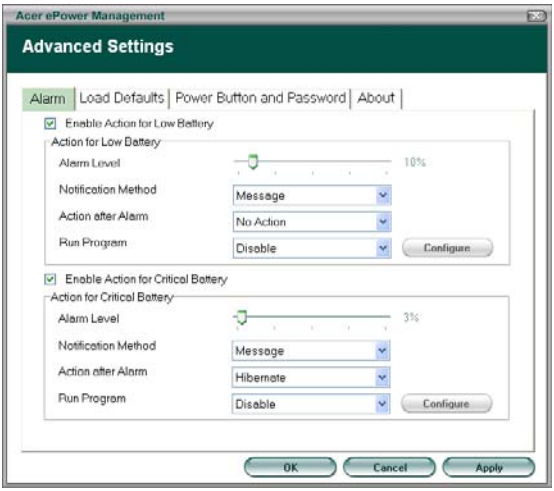
5 The new profile will appear on the main screen.

Battery status

For real-time battery life estimates based on current usage, refer to the panel on the lower left-hand side of the window.

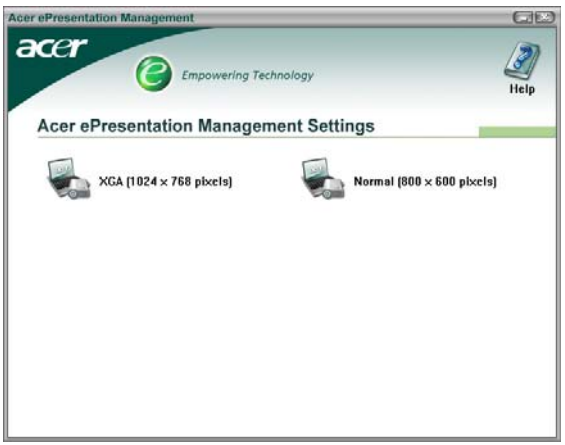
You can also click "Advanced Settings" to:

- Set alarms.
- Re-load factory defaults.
- Select what actions will be taken when the cover is closed, and set passwords for accessing the system after Hibernation or Standby.
- View information about Acer ePower Management.



Acer ePresentation Management

Acer ePresentation Management lets you select from two of the most common projector resolutions: XGA and SVGA.



An Extensa tour

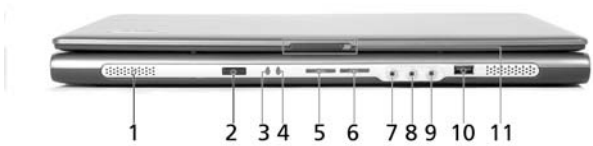
After setting up your computer as illustrated in the **Just for Starters...** poster, let us show you around your new Extensa computer.

Front view

#	Item	Description
1	Display screen	Also called Liquid-Crystal Display (LCD), displays computer output.
2	Microphone	Internal microphone for sound recording.
3	Keyboard	For entering data into your computer.
4	Palmrest	Comfortable support area for your hands when you use the computer.
5	Click buttons (Left and right)	The left and right buttons function like the left and right mouse buttons.

#	Item	Description
6	Touchpad	Touch-sensitive pointing device which functions like a computer mouse.
7	Status indicators	Light-Emitting Diodes (LEDs) that turn on and off to show the status of the computer's functions and components.
8	Easy-Launch buttons	Buttons for launching frequently used programs. See **"Easy-launch buttons" on page 20** for more details.
9	Power button	Turns the computer on and off.

Closed front view



#	Icon	Item	Description
1		Speakers	Left and right speakers deliver stereo audio output.
2		Infrared port	Interfaces with infrared devices (e.g., infrared printer and IR-aware computer).
3		Power indicator	Lights when the computer is on.
4		Battery indicator	Lights when the battery is being charged.
5		Bluetooth communication button/indicator (for selected models)	Press to enable/disable Bluetooth function. Lights to indicate the status of Bluetooth communications.
6		Wireless communication button/indicator	Press to enable/disable the wireless function. Indicates the status of wireless LAN communication.
7		Line-in jack	Accepts audio line-in devices (e.g., audio CD player, stereo walkman).
8		Mic-in jack	Accepts inputs from external microphone.

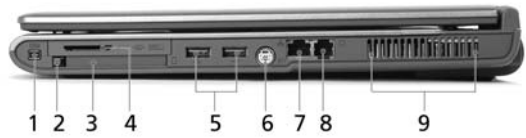
#	Icon	Item	Description
9		Speaker-out/line-out/Headphone jack	Connects to audio line-out devices (e.g., speakers, headphones).
10		USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
11		Latch	Locks and releases the lid.

Left view

#	Item	Description
1	Slot-load optical drive eject button	Ejects the optical disk from the drive.
2	Optical disk access indicator	Lights up when the optical drive is active.
3	Slot-load optical drive	Internal optical drive; accepts CDs and DVDs

Note: The slot-load optical drive can only accept 12 cm disks.

Right view



#	Icon	Item	Description
1	1394	IEEE 1394 port	Connects to IEEE 1394 devices.
2		PC Card slot eject button	Ejects the PC Card from the slot.
3		PC Card slot	Accepts one Type II PC Card.
4		4-in-1 card reader	Accepts an MS, MS PRO, MMC or SD card (manufacturing option). **Note:** Only one card can operate at any given time.
5		Two USB 2.0 port	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).
6		S-video out port	Connects to a television or display device with S-video input.
7		Network jack	Connects to an Ethernet 10/100/1000-based network (for selected models).
8		Modem jack	Connects to a phone line.
9		Ventilation slots	Enable the computer to stay cool, even after prolonged use.

Rear view

#	Icon	Item	Description
1		Power jack	Connects to an AC adaptor.
2		External display port	Connects to a display device (e.g., external monitor, LCD projector).
3		Security keylock	Connects to a Kensington-compatible computer security lock.

Base view

#	Item	Description
1	Hard disk bay	Houses the computer's hard disk (secured by screws).
2	Battery release latch	Releases the battery for removal.
3	Battery bay	Houses the computer's battery pack.
4	Battery lock	Locks the battery in place.
5	Cooling fan	Helps keep the computer cool. **Note**: Do not cover or obstruct the opening of the fan.
6	Memory compartment	Houses the computer's main memory and mini PCI Card.

Specifications

Microprocessor

- Intel® Pentium® M Processor at 1.5 ~ 2.13 GHz or higher
- Intel® Celeron® M Processor at 1.3 ~ 1.6 GHz or higher

Memory

- 256/512 MB of DDR2 SDRAM standard, upgradeable to 2048 MB with dual soDIMM modules
- 512 KB flash ROM BIOS

Data storage

- One 40 GB and above E-IDE hard disk (2.5”, 9.5mm, UltraDMA-100)
- One internal optical drive
- 4-in-1 Card Reader (for selected models)

Display and video

- Thin-Film Transistor (TFT) displaying at:
  - 15.0” XGA (1024x768)
  - 15.4” WXGA (1280x800)
  - 15.0” SXGA+ (1400x1050)
- Acer CrystalBrite (for selected models)
- ATI MOBILITY™ RADEON™ X600 with 64/128 MB of video memory (for selected models)
- ATI MOBILITY™ RADEON™ X700 with 64/128 MB of video memory (for selected models)
- Simultaneous LCD and CRT display support
- Dual independent display
- "Automatic LCD dim" feature that automatically decides the best settings for your display and conserves power

Connectivity

- Integrated 10/100/1000 Mbps Fast Ethernet connection
- Built-in 56Kbps fax/data modem

- Three Universal Serial Bus (USB) 2.0 ports
- InviLink™ 802.11b/g or 802.11a/b/g dual-band tri-mode Wireless LAN (for selected models)

Audio

- 16-bit AC'97 stereo audio
- Dual speakers and one internal microphone
- Separate audio ports for headphone-out, line-in and microphone-in devices

Keyboard and pointing device

- 88/89-key Windows keyboard
- Ergonomically-centered touchpad pointing device with scroll function

I/O ports

- One Type II PC Card slot
- One RJ-11 phone jack (V.92, 56Kbps modem)
- One RJ-45 network jack
- One DC-in jack (AC adapter)
- One external monitor port
- One speaker/headphone-out jack
- One audio line-in jack
- One microphone-in jack
- One Infrared (FIR) port
- One IEEE 1394 port
- One S-video TV-out port
- Three USB 2.0 ports
- 4-in-1 MS/MS Pro/MMC/SD card reader (for selected models)

Weight (with battery)

- 6.6 lbs (3 kg)

Dimensions

- 360 (W) x 273 (D) x27/32 (H) mm

Environment

- Temperature:
  - Operating: 5°C ~ 35°C
  - Non-operating: -20°C ~ 65°C
- Humidity (non-condensing):
  - Operating: 20% ~ 80% RH
  - Non-operating: 20% ~ 80% RH

System

- Genuine Windows® XP Home/professional/MCE (MCE for selected models)
- ACPI 1.0b support
- DMI 2.0-compliant
- Wi-Fi®-compliant

Power

- 8-cell (65W) or 4-cell (32W) Li-ion battery pack
- 65W AC adapter 19V 3.42A

Options

- 256MB/512MB/1GB memory upgrade module
- Additional 65W AC adapter
- Addition Li-ion battery pack
- Additional hard disk
- USB floppy drive

Note: The specifications listed above are for reference only. The exact configuration of your PC depends on the model purchased.

Indicators

The computer has three easy-to-read status indicators on the upper-right above the keyboard, and four on the front panel.

The power, battery, and wireless communication status indicators are visible even when the LCD display is closed.

Icon	Function	Description
	Caps Lock	Lights up when Caps Lock is activated.
	Num Lock	Lights up when Num Lock is activated.
	HDD	Indicators when the hard disk drive is active.
	Bluetooth	Indicates the status of Bluetooth communication.
	Wireless LAN	Indicates the status of wireless LAN communication.
	Power	Lights up when the computer is on.
	Battery	Lights up when the battery is being charged.

1. **Charging:** The light shows amber when the battery is charging.
2. **Fully charged:** The light shows green when in AC mode.

Easy-launch buttons

Located at the upper-right, above the keyboard are four buttons. These buttons are called easy-launch buttons. They are: mail, Web browser, Empowering Key "e" and one user-programmable button.

Press "e" to run the Acer Empowering Technology. Please see **"Acer Empowering Technology" on page 1**. The mail and Web buttons are pre-set to email and Internet programs, but can be reset by users. To set the Web browser, mail and programmable keys, run the Acer Launch Manager. See **"Launch Manager" on page 30**.

Launch key	Default application
P	User-programmable
e	Acer Empowering Technology (user-programmable)
Web browser	Internet browser (user-programmable)
Mail	Email application (user-programmable)

Touchpad

The built-in touchpad is a pointing device that senses movement on its surface. This means the cursor responds as you move your finger across the surface of the touchpad. The central location on the palmrest provides optimum comfort and support.

Touchpad basics

The following items show you how to use the touchpad:

- Move your finger across the touchpad **(2)** to move the cursor.
- Press the left **(1)** and right **(4)** buttons located beneath the touchpad to perform selection and execution functions. These two buttons are similar to the left and right buttons on a mouse. Tapping on the touchpad is the same as clicking the left button.
- Use the 4-way scroll **(3)** button to scroll up or down and move left or right a page. This button mimics your cursor pressing on the right scroll bar of Windows applications.

Function	Left button (1)	Right button (4)	Main touchpad (2)	Center button (3)
Execute	Quickly click twice.		Tap twice (at the same speed as double-clicking a mouse button).	
Select	Click once.		Tap once.	
Drag	Click and hold, then use finger on the touchpad to drag the cursor.		Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the touchpad on the second tap and drag the cursor.	
Access context menu		Click once.		
Scroll				Click and hold to move up/down/ left/right.

Note: Keep your fingers dry and clean when using the touchpad. Also keep the touchpad dry and clean. The touchpad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping harder will not increase the touchpad's responsiveness.

Using the keyboard

The keyboard has full-sized keys and an embedded keypad, separate cursor keys, two Windows keys and 12 function keys.

Lock keys and embedded numeric keypad

The keyboard has three lock keys which you can toggle on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock **<Fn> + <F11>**	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when you need to do a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock **<Fn> + <F12>**	When Scroll Lock is on, the screen moves one line up or down when you press the up or down arrow keys respectively. Scroll Lock does not work with some applications.

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the keycaps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold **<Shift>** while using cursor-control keys.	Hold **<Fn>** while using cursor-control keys.
Main keyboard keys	Hold **<Fn>** while typing letters on embedded keypad.	Type the letters in a normal manner.

Windows keys

The keyboard has two keys that perform Windows-specific functions.

Key		Description
	Windows key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions: **< > + <Tab>** Activates the next Taskbar button. **< > + <E>** Opens the My Computer window. **< > + <F1>** Opens Help and Support. **< > + <F>** Opens the Find: All Files dialog box. **< > + <R>** Opens the Run dialog box. **< > + <M>** Minimizes all windows. **<Shift> + < > + <M>** Undoes the minimize all windows action.
	Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

Hotkeys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness, volume output and the BIOS utility.

To activate hotkeys, press and hold the **<Fn>** key before pressing the other key in the hotkey combination.

hotkey	Icon	Function	Description
<Fn> + <F1>		hotkey help	Displays help on hotkeys.
<Fn> + <F2>		Acer eSettings	Launches Acer eSettings in Empowering Technology. See "Acer Empowering Technology" on page 1.
<Fn> + <F3>		Acer ePowerMana-gement	Launches Acer ePower Management in Empowering Technology. See "Acer Empowering Technology" on page 1.
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Screen blank	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the internal touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <↑>		Volume up	Increases the sound volume.
<Fn> + <↓>		Volume down	Decreases the sound volume.
<Fn> + <→>		Brightness up	Increases the screen brightness.
<Fn> + <←>		Brightness down	Decreases the screen brightness.

Special keys

You can locate the Euro symbol and the US dollar sign at the upper-center and/or bottom-right of your keyboard. To type:

The Euro symbol

1 Open a text editor or word processor.

2 Either directly press the < € > key at the bottom-right of the keyboard, or hold <**Alt Gr**> and then press the **<5>** key at the upper-center of the keyboard.

Note: Some fonts and software do not support the Euro symbol. Please refer to **www.microsoft.com/typography/faq/faq12.htm** for more information.

The US dollar sign

1 Open a text editor or word processor.

2 Either directly press the **< $ >** key at the bottom-right of the keyboard, or hold **<Shift>** and then press the **<4>** key at the upper-center of the keyboard.

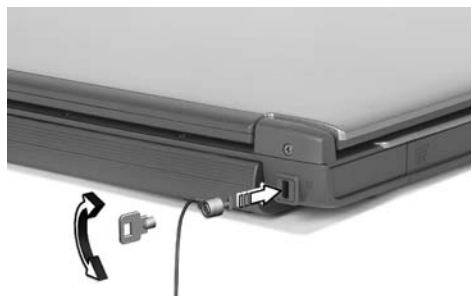
Note: This function varies according to the language settings.

Ejecting the optical (CD or DVD) disk

To eject the optical disk when the computer is turned on, press the drive eject button.

Using a computer security lock

A security keylock notch, located on the rear of the computer, lets you connect a Kensington-compatible computer security lock.



Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

Audio

The computer comes with 16-bit high-fidelity AC'97 stereo audio, and dual stereo speakers.

Adjusting the volume

Adjusting the volume on the computer is as easy as pressing some buttons. See "Hotkeys" on page 24 for more information on adjusting the speaker volume.

Using the system utilities

The system utilities work under Microsoft Windows XP only.

Acer GridVista (dual-display compatible)

Note: This feature is only available on certain models.

To enable the dual monitor feature of your notebook, first ensure the second monitor is connected, then, select **Start**, **Control Panel**, **Display** and click on **Settings**. Select the secondary monitor **(2)** icon in the display box and then click the check box **Extend my windows desktop onto this monitor**. Finally, click **Apply** to confirm the new settings and click **OK** to complete the process.

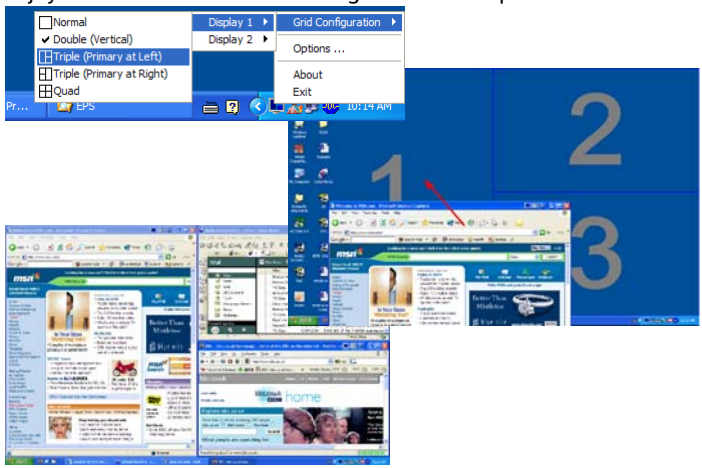
Acer GridVista is a handy utility that offers four pre-defined display settings so you can view multiple windows on the same screen. To access this function, please go to **Start**, **All Programs** and click on **Acer GridVista**. You may choose any one of the four display settings indicated below:

Double (vertical), Triple (primary at left), Triple (primary at right), or Quad

Acer Gridvista is dual-display compatible, allowing two displays to be partitioned independently.

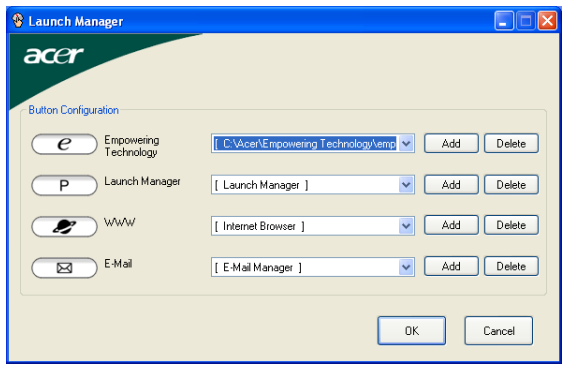
Acer GridVista is simple to set up:

1 Run Acer GridVista and select your preferred screen configuration for each display from the taskbar.
2 Drag and drop each window into the appropriate grid.
3 Enjoy the convenience of a well-organized desktop.



Note: Please ensure the resolution setting of your second monitor is set to the manufacturer's recommended value.

Launch Manager



Launch Manager allows you to set the four easy-launch buttons located above the keyboard. **"Easy-launch buttons" on page 20** for the location of the easy-launch buttons.

You can access the Launch Manager by clicking on **Start**, **All Programs**, and then **Launch Manager** to start the application.

Norton AntiVirus

Norton AntiVirus is an anti-virus software that finds and repairs infected files, and protects against viruses to keep your computer data safe and secure.

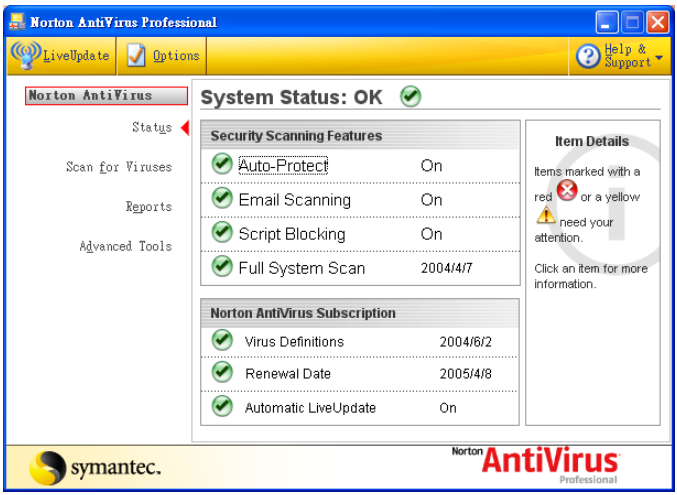
How do I check for viruses?

A Full System Scan scans all files on your computer. To perform a system scan:

1 Start Norton AntiVirus.

Double click on the **Norton AntiVirus** Icon on the desktop or click on the **Start** menu in the Windows taskbar, highlight **Programs**, and select **Norton AntiVirus**.

2 In the Norton AntiVirus main window, click **Scan for Viruses**.



3 In the **Scan for Viruses** panel, click **Scan My Computer**.

4 Under **Actions**, click **Scan**.

5 When the scan is complete, a scan summary appears. Click **Finished**.

You can schedule customized virus scans that run unattended on specific dates and times or at periodic intervals. If you are using the computer when the scheduled scan begins, it runs in the background so that you do not have to stop working.

For more information refer to the Norton AntiVirus Help menu.

Frequently asked questions

The following is a list of possible situations that may arise during the use of your computer. Easy solutions are provided for each one.

I turned on the power, but the computer does not start or boot up.

Look at the power indicator:

- If it is not lit, no power is being supplied to the computer. Check the following:
  - If you are using on the battery, it may be low and unable to power the computer. Connect the AC adaptor to recharge the battery pack.
  - Make sure that the AC adaptor is properly plugged into the computer and to the power outlet.
- If it is lit, check the following:
  - Is a non-bootable (non-system) disk in the external USB floppy drive? Remove or replace it with a system disk and press **<Ctrl> + <Alt> + <Del>** to restart the system.

Nothing appears on the screen.

The computer's power management system automatically blanks the screen to save power. Press any key to turn the display back on.

If pressing a key does not turn the display back on, three things might be the cause:

- The brightness level might be too low. Press **<Fn> + <→>** (increase) to adjust the brightness level.
- The display device might be set to an external monitor. Press the display toggle hotkey **<Fn> + <F5>** to toggle the display back to the computer.
- If the Sleep indicator is lit, the computer is in Sleep mode. Press and release the power button to resume.

Image is not full-screen.

Each computer display has a different native resolution depending on the screen. If you set the resolution lower than this native resoution, the screen expands to fill the computer display. Right-click on your Windows desktop and select **Properties** to bring up the "Display Properties" dialog box. Then click on the **Settings** tab to make sure that the resolution is set to the appropriate resolution. Resolutions lower than the specified resolution are not full-screen on the computer or on an external monitor.

No audio is heard from the computer.

Check the following:

- The volume may be muted. In Windows, look at the volume control (speaker) icon on the taskbar. If it is crossed-out, click on the icon and deselect the **Mute** option.
- The volume level may be too low. In Windows, look at the volume control icon on the taskbar. You can also use the volume control buttons to adjust the volume. See "Hotkeys" on page 24 for more detail.
- If headphones, earphones or external speakers are connected to the line-out port on the computer, the internal speakers automatically turn off.

I want to eject the optical drive tray without turning on the power.

There is a mechanical eject hole on the optical drive. Simply insert the tip of a pen or paperclip into the hole and push to eject the tray. (If your computer's optical drive is a slot-load model, it will not have an eject hole.)

The keyboard does not respond.

Try attaching an external keyboard to a USB 2.0 port on the computer. If it works, contact your dealer or an authorized service center as the internal keyboard cable may be loose.

The infrared port does not work.

Check the following:

- Make sure that the infrared ports of the two devices are facing each other (+/- 15 degrees) a maximum of 1 meter apart.
- Make sure there is a clear path between the two infrared ports. Nothing should be blocking the ports.
- Make sure you have the appropriate software running on both devices (for file transfers) or you have the appropriate drivers (for printing to an infrared printer).
- During the POST, press **<F2>** to access the BIOS utility and verify that the infrared port is enabled.
- Make sure both devices are IrDA-compliant.

The printer does not work.

Check the following:

- Make sure that the printer is connected to a power outlet and that it is

turned on.

- Make sure that the printer cable is connected securely to the computer's parallel port or a USB port and the corresponding port on the printer.

I want to set up my location to use the internal modem.

To properly use your communication software (e.g. HyperTerminal), you need to set up your location:

1 Click on **Start**, **Settings**, **Control Panel**.

2 Double-click on **Modems**.

3 Click on **Dialing Properties** and begin setting up your location.

Refer to the Windows manual.

Note: Please note, on first booting your notebook, that you can skip the Internet Connection setup, as it is not necessary to complete the installation of your Operating System. After the Operating System is set up, you can proceed with the Internet Connection setup.

I want to restore my computer to its original settings without recovery CDs.

Note: If your system is the multilingual version, the operating system and language you choose when you first turn on the system will be the only option for future recovery operations.

This recovery process helps you restore the C: drive with the original software content that is installed when you purchase your notebook. Follow the steps below to rebuild your C: drive. (Your C: drive will be reformatted and all data will be erased.) It is important to back up all data files before using this option.

Before performing a restore operation, please check the BIOS settings.

1 Check to see if **Acer disk-to-disk recovery** is enabled or not.

2 Make sure the **D2D Recovery** setting in **Main** is **Enabled**.

3 Exit the BIOS setup utility and save changes. The system will reboot.

Note: To activate the BIOS setup utility, press **<F2>** during POST.

To start the recovery process:

1 Restart the system.

2 While the Acer logo is showing, press **<Alt> + <F10>** at the same time to enter the recovery process.

3 Refer to the on-screen instructions to perform system recovery.

Important: This feature occupies 2 to 3 GB in a hidden partition on your hard drive.

Requesting service

International Travelers Warranty (ITW)

Your computer is backed by an International Travelers Warranty (ITW) that gives you security and peace of mind when traveling. Our worldwide network of service centers are there to give you a helping hand.

An ITW passport comes with your computer. This passport contains all you need to know about the ITW program. A list of available, authorized service centers is in this handy booklet. Read this passport thoroughly.

Always have your ITW passport on hand, especially when you travel, to receive the benefits from our support centers. Place your proof-of-purchase in the flap located inside the front cover of the ITW passport.

If the country you are traveling in does not have an Acer-authorized ITW service site, you can still get in contact with our offices worldwide. Please consult **http://global.acer.com**.

Before you call

Please have the following information available when you call Acer for online service, and please be at your computer when you call. With your support, we can reduce the amount of time a call takes and help solve your problems efficiently.

If there are error messages or beeps reported by your computer, write them down as they appear on the screen (or the number and sequence in the case of beeps).

You are required to provide the following information:

Name: _____

Address: _____

Telephone number: _____

Machine and model type: _____

Serial number: _____

Date of purchase: _____

Acer Arcade (for selected models)

Acer Arcade is an integrated player for music, photos, DVD movies and videos. To watch or listen, click a content button (e.g., Music, Video, etc.) on the Arcade home page.

- **Cinema** — Watch DVDs or VCDs
- **Album** — View photos stored on your hard drive or removable media
- **Video** — Watch and/or edit video clips
- **Music** — Listen to music files in a variety of formats
- **Burner** — Create CDs and/or DVDs to share or archive data
- **TV** — Watch digital or analog TV programs (optional)
- **Settings** — Adjust Acer Arcade according to your preferences

Note: While watching videos, DVDs or slideshows, your screensaver and power-saving features are unavailable. These functions are enabled when you listen to music.

Arcade hotkeys

When running in the Windows environment, the key combinations listed below are available to control and fine-tune the features and settings of Acer Arcade.

Hotkey	Function
<Fn> + <F1>	Online help menu
<Fn> + <F3>	Acer ePowerManagement with battery information
<Fn> + <F5>	Display toggle
<Fn> + <F6>	Screen blank
<Fn> + <F8>	Speaker toggle
<Fn> + <↑>	Volume up; increases the speaker volume.
<Fn> + <↓>	Volume down; decreases the speaker volume
<Fn> + <→>	Brightness up; increases the screen brightness
<Fn> + <←>	Brightness down; decreases the screen brightness
<Fn> + <Home>	Play; press to start playing the audio track or video file. Press again to pause.
<Fn> + <Pg Up>	Stop; press to stop playing the audio track or video file.
<Fn> + <Pg Dn>	Backward; press to skip backward to the previous track or video file and start playing.
<Fn> + <End>	Forward; press to skip forward to the next track or video file.

Finding and playing content

Clicking a button on the Arcade home page opens the corresponding feature's home page. The content pages have buttons on the left and a content browsing area on the right. If a button shows one of several choices, such as sort order, the current setting is shown by a brightly colored ball on the left side.

To pick content, click an item in the content area. When there is more than one CD or DVD drive, all drives will be shown. Pictures and videos are shown as files (with thumbnails) and organized into folders.

To browse a folder, click to open it. To go back up to the folder above it, click the **Up one level** button. If there is more content than will fit on a page, use the buttons at the lower right to scroll through the pages.

Settings

There are settings in Acer Arcade that allow you to fine tune its performance to your machine and your personal preferences. The Settings page is reached by the **Advanced Settings** button on the Home page.

Use the "screen ratio" setting to choose between standard (4:3) or widescreen (16:9) display.

"Audio output" should be set to "Stereo" if you are listening to speakers, or "Virtual surround sound" if you are using headphones.

Note: If your speakers are not capable of outputting low frequency signals, it is recommended that you do not select this option in order to avoid damaging your speakers.

Click **About Acer Arcade** to open a page with version and copyright information.

Click **Restore to factory settings** to return the Acer Arcade settings to their default values.

Arcade controls

When watching video clips, movies, or slideshows as full-screen visual content, two pop-up control panels are shown when you move the mouse. They automatically disappear after several seconds. The "Navigation controls" panel appears at the top and the "Player controls" panel appears at the bottom of the screen.

Navigation controls

To return to the Arcade home page, click the **Home** button in the upper left corner of the window. To go up one folder level while searching for content, click **Up one level**. To return to a previous screen, click **Return**. The buttons in the upper right (minimize, maximize, and close) have standard PC behaviours.

To quit Arcade, click the **Close** button in the upper right corner of the window. You can also click **To PC**.

Player controls

At the bottom of the window, the player controls — used for video, slideshows, movies and music — are shown. The group on the left provides standard playback controls (play, pause, stop, etc.). The group on the right controls volume (mute and volume up/down).

Note: When playing DVDs, there are additional controls added to the right of the volume controls. These are discussed in more detail in the Cinema section of this guide.

Cinema

If your computer came with a DVD drive, you can play movies from DVDs and Video CDs (VCDs) with the Cinema function of Acer Arcade. This player has the features and controls of a typical DVD player.

When you insert a disk into the DVD drive, the movie begins playing automatically. To control the movie, the pop-up player control panel appears at the bottom of the window when you move the mouse.

If more than one optical drive contains a playable disk, click the **Cinema** button on the Home page to open the Cinema content page, then select the disk you'd like to watch from the list on the right.

When viewing DVDs, the following special controls are added to the pop-up panel:

- DVD Menu
- Subtitle
- Language
- Angle

The disk currently playing will be shown in the area above the list of drives. This page is also displayed when you press the **Stop** button during a movie. The buttons on the left side allow you to resume the movie from the point it was stopped, restart the movie from the beginning, jump to the DVD menu, eject the disk, or go to the "DVD Settings" page.

DVD settings

There are two types of DVD settings: "Video" and "Language." Click the appropriate button to open its settings page.

Video

The Video settings control the video output of DVDs/VCDs.

Hardware acceleration takes advantage of the special processing power of some graphics cards to reduce CPU loading when playing back DVDs and video files. If you have problems with video quality, try turning this option **Off**.

Select an output type:

- **4:3 Standard** or **16:9 Widescreen** according to your display preferences.
- The **Letterbox** option displays widescreen movie content in its original aspect ratio and adds black bars at the top and bottom of the screen.
- The **Pan & Scan** feature is for DVD titles with a widescreen aspect ratio.
- Acer CinemaVision is a nonlinear video stretching technology that produces minimal distortion in the center of the picture.
- **Stretch** stretches the video display to the size of the display screen.
- The "Color profile" option allows you to select from a list of color configurations to change the overall color of the video content during playback. "Original" uses the color scheme of the disk you are watching, while "Vivid," "Bright" and "Theater" add enhanced color to the video display.
- Acer ClearVision is a video enhancement technology that detects video content and dynamically adjusts the brightness/contrast/saturation levels so that you do not need to change the color settings if the movie you are watching contains scenes that are overly dark or too bright.
- Click **Restore to factory settings** to return the settings to their default values.

Language

The "Language settings" control the audio and subtitle output of DVDs/VCDs.

"Subtitle" selects the default subtitle language for DVDs when available. The factory setting is "Off."

"Closed caption" turns on the closed captions on DVDs. This function displays captions encoded in the video signal that describe onscreen action and dialog for the hearing impaired. The factory setting is "Off."

"Audio" selects the default language for DVD titles.

Album

Acer Arcade lets you view digital photos individually or as a slideshow, from any available drive on your computer. Click the **Album** button on the Arcade Home page to show the Album main page.

The content area on the right shows both individual pictures and folders. **Click** on a folder to open it.

To view a slideshow, open the folder containing the pictures you wish to view, then click **Play slideshow**. The slideshow is played full-screen. Use the pop-up control panel to control the slideshow.

To rotate a picture in full-screen, click **Rotate right** or **Rotate left**.

You can also view a single picture by **clicking** on it. This opens the picture full-screen.

Slideshow settings

To change slideshow settings, click the **Settings** button on the Album page.

"Slide duration" determines how long each slide is shown before automatically advancing to the next picture in the slideshow.

"Transition effects" sets the style of transition used between pictures.

To add background music to a slideshow, set the "Play music during slideshow" option to "Yes." The Select Music page will ask you to choose music from your personal music library.

Click **Restore to factory settings** to return your settings to their default values.

Video

To open the Video function, click **Video** on the Arcade Home page.

Note: The Video feature is designed to play back MPEG1, MPEG2 (if a DVD drive is installed), AVI, WMV, and ASF formats. If you want to watch a DVD or VCD use the "Cinema" function.

Two options are shown on the Video page: "Video Play" or "Video Edit."

Playing a video file

Click **Video Play** to watch video files. The Video page shows the video files in the content area on the right side. They are organized by folders and a thumbnail image shows the first frame of the video.

To play a video file, click on it. The video will play full-screen. The pop-up control panel will appear at the bottom of the screen when you move the mouse. To return to the Video page, click **Stop**.

Video authoring

Click the **Video Authoring** button to open the PowerProducer program, which allows you to finalize your digital video productions and burn them to disk. Before you produce your movie using PowerProducer, first gather (or create) its component parts: video clips, photos, and background music. You may collect raw footage yourself with a camcorder or other recording device, or you may simply use files that you have on hand; including movies you have already created in a video editing program.

When your movie is ready for production, use PowerProducer, which offers basic video editing tools. PowerProducer's production functions include:

- burns CDs, DVDs, VCDs, SVCDs and editable DVDs
- erases rewritable disks that contain unwanted content
- copies disks
- defragments disks for appending video content
- burns DV content straight to DVD
- sets chapters within video content
- adds background music to videos and menus
- offers custom menu layouts for buttons, frames and backgrounds
- captures from DVD, firewire devices, analog capture cards, USB devices and files

For help with authoring video, refer to PowerProducer's online help system.

Music

For convenient access to your music collection, click **Music** on the Arcade homepage to open the Music homepage.

Select the folder or CD that contains the music you want to listen to. Click **Play** to listen to the entire content from the beginning, or select the song that you want to hear from the list in the content area.

The songs in the folder are shown in the content area, while the left side has controls for "Play," "Random," and "Repeat all." The Visualize option allows you to watch computer generated visualizations while you listen to music. When playing music, the control panel at the bottom of the page makes it easy to adjust the volume and control playback.

To rip music from a CD, click **Rip CD**. In the page that opens, select the songs you would like to rip (or click **Select** or **Clear all**), then click **Rip now**.

Burner

NTI CD/DVD-Maker simplifies today's digital lifestyle by providing an easy and complete solution for recording data, audio, photos or video. Now you can burn and share anything on CD/DVD — your data, music, photos or videos — faster and easier than ever before.

Copy — Back up your CD/DVD collection

Make backup copies of (non-copy-protected) CDs and DVDs with just a few clicks of your mouse.

Audio — Create your own greatest hits CDs

Create better sounding music in a snap. Burn your favorite songs to CD so you can listen to them on any CD player. Convert songs from your music collection to MP3 and other popular audio formats. Even create MP3 CDs with over 100 of your favorite songs and listen to them on your PC or MP3 CD player.

Data — Store files simply and easily

Copy your computer's hard drive files for easy recovery in the event of a crash. Archiving your data on CD/DVD eliminates the need for extra hard drives.

Video — Your world in pictures

Turn digital photos into a slideshow VCD with background music that can be played by most DVD players. Bring new life to your video clips and share any event with your friends and family for playback on most DVD players. You can even add customized menus to Video CDs and Super Video CDs.

For specific details about each of these options, consult the User's Guide or click the **Help** button to open NTI CD/DVD-Maker's help menu.

TV

Arcade allows you to watch TV from your computer. Click the **TV button** on the Home page to show the TV main page.

The **Full screen** option plays TV content at full screen: Press the <**Backspace**> key or double-click anywhere on the screen to return to Arcade.

When you watch TV, additional buttons appear on the playback controls: **Record** (records TV content as a video file), **Previous channel** (switches down one channel), **Next channel** (switches up one channel), **Window mode** (toggles the Arcade program between a Windows panel and full screen), and **TeleText** (opens the TeleText function), **Video desktop** (replaces your desktop wallpaper with the video display), and **Snapshot** (takes a snapshot of the current frame of video).

The **Recorded TV** option allows you to view files that you have recorded from the TV. See Recorded TV.

The **Schedule** option lets you set TV recording schedules for later viewing. See Scheduling Recordings.

The **Settings** button opens a page containing TV settings. See TV settings.

The **TV preview** option permits you to preview available TV channels. See TV preview.

The **TeleText** option opens the TeleText function. See using TeleText functions.

Instant replay

By default, the instant replay function is enabled in Arcade. To make an instant replay, Arcade records the TV broadcast as a file, creating a slight lag between the live broadcast and the TV content that you watch. (The instant replay file cannot be saved, however, and you cannot watch this file in the Recorded TV window.) You can navigate forward and backward within the file to create an instant replay or to skip over commercials.

Note: One of your local drive must contain at least 2 GB of free space in order to enable the instant replay function.

Click " ❚❚ " to pause playback, " ▶ " to continue watching. Click " ◀◀ " to rewind, or " ▶▶ " to fast forward. Click " ⏮ " to go to the start of the instant replay recording, or click " ⏭ " to go to the end of the instant replay recording.

Note: Since the TV content you watch always lags slightly behind the live TV broadcast, going to the end of the instant replay recording is as close to watching live TV as Arcade permits.

Recorded TV

The "Recorded TV" page shows recorded files using the "Recorded TV shows" page of the "Video" function. A thumbnail image shows the first frame of the file. To **play** a recorded TV file, click it. The video will play full screen. To return to the TV page, click **Stop**.

For a description of the options on this page, see Videos.

Scheduling recordings

To set a TV recording schedule, click **Schedule**, then **New schedule**. In the page that opens, select the **Channel** you want to record and the **scheduling frequency**. Set the **Starting date**, **Starting time**, and **Ending time** of the program you want to record. Click **Confirm schedule** to activate the recording schedule, or **Cancel** to quit without accepting the schedule. Select **Delete schedule** to remove a recording schedule you have previously created.

Click an existing recording schedule to open it for modification. To change the order in which schedules are displayed, click **Sort by channel** or **Sort by date**.

TV preview

Click the **TV preview** button to display a wall of TV screen thumbnails, previewing each channel. The TV preview scrolls automatically through all available channels. **Select a thumbnail** to watch the corresponding channel.

Using TeleText functions

This page displays TeleText listings with different kinds of information. To return to the main TV page, press the **<Backspace>** key.

To navigate within the TeleText function, you can:

- **Click the yellow or blue headlines** to open the first page of listings on the corresponding TeleText page.
- **Click an onscreen page number** to jump to that page.
- Use the keyboard number buttons to enter a page number directly.
- Use the **up/down buttons** on the remote to go to the previous/next page.
- **Click the red <-> or green <+>** button to go to the previous/next page.
- Press <**Backspace>** on the keyboard or the **Back** button on the remote to return to the main TV page.

TV settings

To change picture settings, click the **TV** button on the "Settings" page or the **Settings** button on the main TV page. There are two types of TV settings: "TV signal" and "Channels."

TV signal

Select this **TV source** option if your TV receives signals via an antenna or cable.

The **Country** option allows you to select the country or region where your cable provider is located.

The **recording quality** option allows you to set the quality of video recorded from the TV. Selecting a higher quality results in a larger recorded file when recording TV shows.

The **Audio source** option allows you to select your audio input source from a list of available sources.

The **Audio mode** option allows you to set your audio output as **Mono**, **Stereo**, or **SAP**. The **SAP** (Second Audio Program) option is an enhanced audio signal that can be used to augment the main audio or to provide an audio translation or other information.

Click **Restore default settings** to return your settings to their default values.

Channels

The **Channel list** contains all of the TV channels available in Arcade. By default, all available channels are enabled. To disable a channel in the list, uncheck it. Disabled channels are not available for selection when you return to the TV page to watch TV.

To move a channel to your "Favorite Channels" list, click it, then click the **new location** (or use the up/down arrow keys and press **<Enter>**). The channel is moved to the new location in the list.

To rename a channel in the list, **click** on it, then enter the new name.

If no channel list exists, click **Scan channels**. Your computer will scan and list the available TV channels.

File type compatibility

Mode	Supported	Not supported
Cinema	DVD/ SVCD/VCD/MiniDVD	DTS, Linear PCM, TruSurroundXT, SRS, DVD audio
Video	ASF/WMV/AVI/MPEG1/2, DivX (requires codec)	DVD navigator, SVCD, M2V, MOV, Flash
Album	BMP, JPG, PNG	GIF, TIF, PSD, ICO
Music	MP3, WMA, WAV, CDA (audio CD)	DVD audio, SACD

Note: Automatic media detection will only function under the main menu.

Taking your notebook PC with you

This section gives you tips and hints to consider when moving around or traveling with your computer.

Disconnecting from the desktop

Follow these steps to disconnect your computer from external accessories:

1 Save any open files.

2 Remove any media, floppy disks or compact disks from the drive(s).

3 Shut down the computer.

4 Close the display cover.

5 Disconnect the cord from the AC adaptor.

6 Disconnect the keyboard, pointing device, printer, external monitor and other external devices.

7 Disconnect the Kensington lock if you are using one to secure the computer.

Moving around

When you are just moving within short distances, for example, from your office desk to a meeting room.

Preparing the computer

Before moving the computer, close and latch the display cover to place it in Sleep mode. You can now safely take the computer anywhere you go within the building. To bring the computer out of Sleep mode, open the display; then press and release the power button.

If you are taking the computer to a client's office or a different building, you may choose to shut down the computer:

Click on **Start**, **Turn Off Computer**, then click on **Turn Off** (Windows XP).

Or:

You can put the computer in Sleep mode by pressing **<Fn> + <F4>**. Then close and latch the display.

When you are ready to use the computer again, unlatch and open the display; then press and release the power button.

Note: If the Sleep indicator is off, the computer has entered Hibernation mode and is turned off. If the power indicator is off but the Sleep indicator is on, the computer has entered Sleep mode. In both cases, press and release the power button to turn the computer back on. Note that the computer may enter Hibernation mode after being in Sleep mode for a period of time.

What to bring to meetings

If your meeting is relatively short, you probably do not need to bring anything with you other than your computer. If your meeting will be longer, or if your battery is not fully charged, you may want to bring the AC adapter with you to plug in your computer in the meeting room.

If the meeting room does not have an electrical outlet, reduce the drain on the battery by putting the computer in Sleep mode. Press **<Fn> + <F4>** or close the display cover whenever you are not actively using the computer. To resume, open the display (if closed), then press and release the power button.

Taking the computer home

When you are moving from your office to your home or vice versa.

Preparing the computer

After disconnecting the computer from your desktop, follow these steps to prepare the computer for the trip home:

- Check that you have removed all media and compact disks from the drive(s). Failure to remove the media can damage the drive head.
- Pack the computer in a protective case that can prevent the computer from sliding around and cushion it if it should fall.

Caution: Avoid packing items next to the top cover of the computer. Pressure against the top cover can damage the screen.

What to take with you

Unless you have some items at home, take the following items with you:

- AC adaptor and power cord
- The printed User's Guide

Special considerations

Follow these guidelines to protect your computer while traveling to and from work:

- Minimize the effects of temperature changes by keeping the computer with you.
- If you need to stop for an extended period of time and cannot carry the computer with you, leave the computer in the trunk of the car to avoid exposing the computer to excessive heat.
- Changes in temperature and humidity can cause condensation. Allow the computer to return to room temperature, and inspect the screen for condensation before turning on the computer. If the temperature change is greater than 10 °C (18 °F), allow the computer to come to room temperature slowly. If possible, leave the computer for 30 minutes in an environment with a temperature between outside and room temperature.

Setting up a home office

If you frequently work on your computer at home, you may want to purchase a second AC adaptor for use at home. With a second AC adaptor, you can avoid carrying the extra weight to and from home.

If you use your computer at home for significant periods of time, you might also want to add an external keyboard, monitor, or mouse.

Traveling with the computer

When you are moving within a larger distance, for instance, from your office building to a client's office building or traveling locally.

Preparing the computer

Prepare the computer as if you were taking it home. Make sure that the battery in the computer is charged. Airport security may require you to turn on your computer when carrying it into the gate area.

What to take with you

Take the following items with you:

- AC adaptor
- Spare, fully-charged battery pack(s)
- Additional printer driver files if you plan to use another printer

Special considerations

In addition to the guidelines for taking the computer home, follow these guidelines to protect your computer while traveling:

- Always take the computer as carry-on luggage.
- If possible, have the computer inspected by hand. Airport security X-ray machines are safe, but do not put the computer through a metal detector.
- Avoid exposing floppy disks to hand-held metal detectors.

Traveling internationally with the computer

When you are moving from country to country.

Preparing the computer

Prepare the computer as you would normally prepare it for traveling.

What to bring with you

Bring the following items with you:

- AC adaptor
- Power cords that are appropriate for the country to which you are traveling
- Spare, fully-charged battery packs
- Additional printer driver files if you plan to use another printer
- Proof of purchase, in case you need to show it to customs officials
- International Travelers Warranty passport

Special considerations

Follow the same special considerations as when traveling with the computer. In addition, these tips are useful when traveling internationally:

- When traveling in another country, check that the local AC voltage and the AC adaptor power cord specifications are compatible. If not, purchase a power cord that is compatible with the local AC voltage. Do not use converter kits sold for appliances to power the computer.
- If you are using the modem, check if the modem and connector is compatible with the telecommunications system of the country you are traveling in.

Securing your computer

Your computer is a valuable investment that you need to take care of. Learn how to protect and take care of your computer.

Security features include hardware and software locks — a security notch and passwords.

Using a computer security lock

A security keylock notch, located on the rear of the computer, lets you connect a Kensington-compatible computer security lock.

Wrap a computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.

Using passwords

Passwords protect your computer from unauthorized access. Setting these passwords creates several different levels of protection for your computer and data:

- Supervisor Password prevents unauthorized entry into the BIOS utility. Once set, you must enter this password to gain access to the BIOS utility. See **"BIOS utility" on page 59**.
- User Password secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation for maximum security.

- Password on Boot secures your computer against unauthorized use. Combine the use of this password with password checkpoints on boot-up and resume from Hibernation for maximum security.

Important! Do not forget your Supervisor Password! If you forget your password, please get in touch with your dealer or an authorized service center.

Entering passwords

When a password is set, a password prompt appears in the center of the display screen.

- When the Supervisor Password is set, a prompt appears when you press <**F2**> to enter the BIOS utility at boot-up.
- Type the Supervisor Password and press <**Enter**> to access the BIOS utility. If you enter the password incorrectly, a warning message appears. Try again and press <**Enter**>.
- When the User Password is set and the password on boot parameter is enabled, a prompt appears at boot-up.
- Type the User Password and press <**Enter**> to use the computer. If you enter the password incorrectly, a warning message appears. Try again and press <**Enter**>.

Important! You have three chances to enter a password. If you fail to enter the password correctly after three tries, the system halts. Press and hold the power button for four seconds to shut down the computer. Then turn on the computer again, and try again.

Setting passwords

You can set passwords using the BIOS utility.

Expanding through options

Your notebook PC offers you a complete mobile computing experience.

Connectivity options

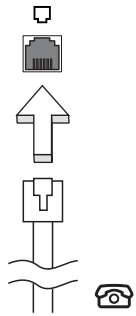
Ports allow you to connect peripheral devices to your computer as you would with a desktop PC. For instructions on how to connect different external devices to the computer, read the following section.

Fax/data modem

Your computer has a built-in V.92 56 Kbps fax/data modem.

Warning! This modem port is not compatible with digital phone lines. Plugging this modem into a digital phone line will damage the modem.

To use the fax/data modem port, connect a phone cable from the modem port to a telephone jack.

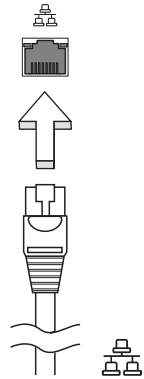


Warning: Please make sure that the cable you use is appropriate for the country in which you are working.

Built-in network feature

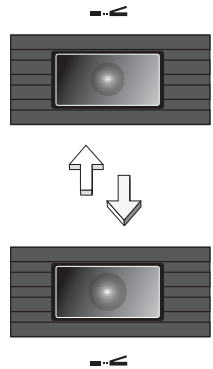
The built-in network feature allows you to connect your computer to an Ethernet-based network.

To use the network feature, connect an Ethernet cable from the network jack on the left hand side of the computer to a network jack or hub on your network.



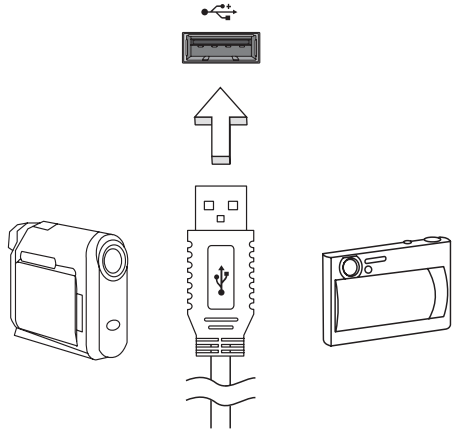
Fast Infrared

The computer's Fast Infrared (FIR) port allows you to do wireless data transfer with other IR-aware computers and peripherals such as PDAs, mobile phones, and infrared printers. The infrared port can transfer data at speeds of up to 4 Mbps at a distance of up to one meter.



Universal Serial Bus (USB)

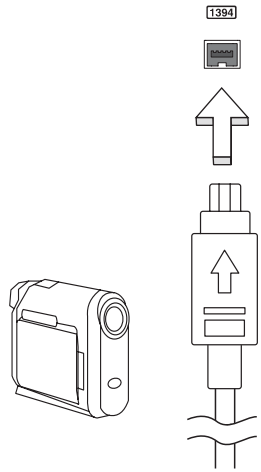
The USB 2.0 port is a high-speed serial bus which allows you to connect USB peripherals without taking up precious system resources.



IEEE 1394 port

The computer's IEEE 1394 port allows you to connect to an IEEE 1394-compatible device like a video camera or digital camera.

See your video or digital camera's documentation for details.



PC Card slot

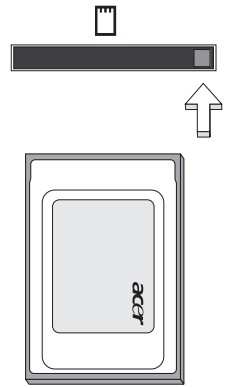
The Type II PC Card slot of the computer accepts PC Cards that enhance the usability and expandability of the computer. These cards should have a PC Card logo on them.

PC Cards (formerly PCMCIA) are add-on cards for portable computers, giving you expansion possibilities long afforded by desktop PCs. Popular PC Cards include flash, fax/data modem, wireless LAN and SCSI cards. CardBus improves on the 16-bit PC card technology by expanding the bandwidth to 32 bits.

Note: Refer to your card's manual for details on how to install and use the card, and its functions.

Inserting a PC Card

Insert the card into the slot and make the proper connections (e.g., network cable), if necessary. See your card manual for details.



Ejecting a PC Card

Before ejecting a PC Card:

1 Exit the application using the card.

2 Left-click on the PC Card icon on the taskbar and stop the card operation.

3 Press the slot eject button to pop out the eject button; then press it again to eject the card.

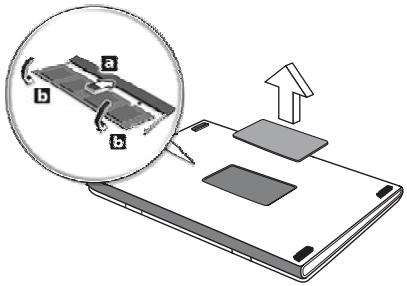
Installing memory

Follow these steps to install memory:

1 Turn off the computer, unplug the AC adaptor (if connected) and remove the battery pack. Then turn the computer over to access its base.

2 Remove the screws from the memory cover; then lift up and remove the memory cover.

3 **(a)** Insert the memory module diagonally into the slot, then **(b)** gently press it down until it clicks into place.



4 Replace the memory cover and secure it with the screw.

5 Reinstall the battery pack, and reconnect the AC adaptor.

6 Turn on the computer.

The computer automatically detects and reconfigures the total memory size. Please consult a qualified technician or contact your local Acer dealer.

BIOS utility

The BIOS utility is a hardware configuration program built into your computer's BIOS.

Your computer is already properly configured and optimized, and you do not need to run this utility. However, if you encounter configuration problems, you may need to run it.

To activate the BIOS utility, press <**F2**> during the POST; while the notebook PC logo is being displayed.

Boot sequence

To set the boot sequence in the BIOS utility, activate the BIOS utility, then select **Boot** from the categories listed at the top of the screen.

Enable disk-to-disk recovery

To enable disk-to-disk recovery (hard disk recovery), activate the BIOS utility, then select **Main** from the categories listed at the top of the screen. Find **D2D Recovery** at the bottom of the screen and use the **<F5>** and **<F6>** keys to set this value to **Enabled**.

Password

To set a password on boot, activate the BIOS utility, then select **Security** from the categories listed at the top of the screen. Find **Password on boot:** and use the **<F5>** and **<F6>** keys to enable this feature.

Using software

Playing DVD movies

When the DVD drive module is installed in the optical drive bay, you can play DVD movies on your computer.

1 Insert a DVD movie disk.

Important! When you launch the DVD player for the first time, the program asks you to enter the region code. DVD disks are divided into 6 regions. Once your DVD drive is set to a region code, it will play DVD disks of that region only. You can set the region code a maximum of five times (including the first time), after which the last region code set will remain permanent. Recovering your hard disk does not reset the number of times the region code has been set. Refer to the table below for DVD movie region code information.

2 The DVD movie will automatically play after a few seconds.

Region code	Country or region
1	U.S.A., Canada
2	Europe, Middle East, South Africa, Japan
3	Southeast Asia, Taiwan, South Korea
4	Latin America, Australia, New Zealand
5	Former U.S.S.R., parts of Africa, India
6	People's Republic of China

Note: To change the region code, insert a DVD movie of a different region into the DVD drive. Please refer to the online help for more information.

Power management

This computer has a built-in power management unit that monitors system activity. System activity refers to any activity involving one or more of the following devices: keyboard, mouse, floppy drive, hard disk, peripherals connected to the serial and parallel ports, and video memory. If no activity is detected for a period of time (called an inactivity timeout), the computer stops some or all of these devices in order to conserve energy.

This computer employs a power management scheme that supports the advanced configuration and power interface (ACPI), which allows for maximum power conservation and maximum performance at the same time. Windows handles all power-saving chores for your computer.

Acer eRecovery Management

Acer eRecovery Management is a tool to quickly backup and restore the system. You can create and save a backup of the current system configuration to hard drive, CD, or DVD.

Acer eRecovery Management consists of the following functions:

1 Create backup

2 Restore from backup

3 Create factory default image CD

4 Re-install bundled software without CD

5 Change Acer eRecovery Management password

This chapter will guide you through each process.

Note: This feature is only available on certain models. For systems that do not have a built-in optical disk burner, plug in an external USB or IEEE 1394-compatible optical disk burner before entering Acer eRecovery Management for optical disk related tasks.

Create backup

You can create and save backup images to hard drive, CD, or DVD.

1 Boot to Windows XP

2 Press **<Alt> + <F10>** to open the Acer eRecovery Management utility.

3 Enter the password to proceed. The default password is six zeros.

4 In the Acer eRecovery Management window, select **Recovery settings** and click **Next**.

5 In the Recovery settings window, select **Backup snapshot image** and click **Next**.

6 Select the backup method.

   a Use **Backup to HDD** to store the backup disk image on drive D:.

   b **Backup to optical device** to store the backup image on CD or DVD.

7 After choosing the backup method, click **Next**.

Follow the instructions on screen to complete the process.

Restore from backup

You can restore backups previously created (as stated in the **Create backup** section) from hard drive, CD, or DVD.

1 Boot to Windows XP.

2 Press **<Alt> + <F10>** to open the Acer eRecovery Management utility.

3 Enter the password to proceed. The default password is six zeros.

4 In the Acer eRecovery Management window, select **Recovery actions** and click **Next**.

5 Select the desired restore action and follow the onscreen instructions to complete the restore process.

Note: The "Restore C:" item is enabled only if there is a user backup stored on the hard drive (D:\). Please refer to the **Create backup** section.

Create factory default image CD

When the System CD and Recovery CD are not available, you can create them by using this feature.

1 Boot to Windows XP.

2 Press **<Alt> + <F10>** to open the Acer eRecovery Management utility.

3 Enter the password to proceed. The default password is six zeros.

4 In the Acer eRecovery Management window, select **Recovery settings** and click **Next**.

5 In the Recovery settings window, select **Burn image to disk** and click **Next**.

6 In the Burn image to disk window, select **01. Factory default image** and click **Next**.

7 Follow the instructions on screen to complete the process.

Re-install bundled software without CD

Acer eRecovery Management stores pre-loaded software internally for easy driver and application re-installation.

1 Boot to Windows XP.

2 Press **<Alt> + <F10>** to open the Acer eRecovery Management utility.

3 Enter the password to proceed. The default password is six zeros.

4 In the Acer eRecovery Management window, select **Recovery actions** and click **Next**.

5 In the Recovery settings window, select **Reinstall applications/drivers** and click **Next**.

6 Select the desired driver/application and follow the instructions on screen to re-install.

At first launch, Acer eRecovery Management prepares all the needed software and may take few seconds to bring up the software content window.

Change password

Acer eRecovery Management and Acer disk-to-disk recovery are protected by a password that can be changed by the user. Follow the steps below to change the password in Acer eRecovery Management.

1 Boot to Windows XP.

2 Press **<Alt> + <F10>** to open the Acer eRecovery Management utility.

3 Enter the password to proceed. The default password is six zeros.

4 In the Acer eRecovery Management window, select **Recovery settings** and click **Next**.

5 In the Recovery settings window, select **Password: Change Acer eRecovery Management password** and click **Next**.

6 Follow the instructions on screen to complete the process.

Note: If the system crashes, and will not boot to Windows, you can run Acer disk-to-disk recovery to restore the factory default image under DOS mode.

Troubleshooting

This chapter shows you how to deal with common system problems. Read it before calling a technician if a problem occurs. Solutions to more serious problems require opening up the computer. Do not attempt to open the computer yourself; contact your dealer or authorized service center for assistance.

Troubleshooting tips

This notebook computer incorporates an advanced design that delivers onscreen error message reports to help you solve problems.

If the system reports an error message or an error symptom occurs, see "Error messages" below. If the problem cannot be resolved, contact your dealer. See "Requesting service" on page 35.

Error messages

If you receive an error message, note the message and take the corrective action. The following table lists the error messages in alphabetical order together with the recommended course of action.

Error messages	Corrective action
CMOS battery bad	Contact your dealer or an authorized service center.
CMOS checksum error	Contact your dealer or an authorized service center.
Disk boot failure	Insert a system (bootable) disk into the floppy drive (A:), then press <**Enter**> to reboot.
Equipment configuration error	Press **<F2>** (during POST) to enter the BIOS utility, then press **Exit** in the BIOS utility to reboot.
Hard disk 0 error	Contact your dealer or an authorized service center.
Hard disk 0 extended type error	Contact your dealer or an authorized service center.
I/O parity error	Contact your dealer or an authorized service center.
Keyboard error or no keyboard connected	Contact your dealer or an authorized service center.
Keyboard interface error	Contact your dealer or an authorized service center.
Memory size mismatch	Press **<F2>** (during POST) to enter the BIOS utility, then press **Exit** in the BIOS utility to reboot.

If you still encounter problems after going through the corrective measures, please contact your dealer or an authorized service center for assistance. Some problems may be solved using the BIOS utility.

Regulations and safety notices

ENERGY STAR guidelines compliance

As an ENERGY STAR partner, Acer Inc. has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Notice: Peripheral devices

Only peripherals (input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this equipment. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this computer.

Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

Hereby, Acer, declares that this notebook PC series is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. (Please visit **http://global.acer.com/products/notebook/reg-nb/index.htm** for complete documents.)

Compliant with Russian regulatory certification

ME61

Modem notices

Notice for USA

This equipment complies with Part 68 of the FCC rules. Located on the modem is a label that contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. Upon request, you must provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will also be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

If this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger UL Listed or CSA Certified Telecommunication Line Cord.

TBR 21

This equipment has been approved [Council Decision 98/482/EC - "TBR 21"] for single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN termination point. In the event of problems, you should contact your equipment supplier in the first instance.

List of applicable countries

EU member states as of May 2004 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus and Malta. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use.

Notice for Australia

For safety reasons, only connect headsets with a telecommunications compliance label. This includes customer equipment previously labelled permitted or certified.

Notice for New Zealand

For modem with approval number PTC 211/03/008

1 The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

2 This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances.

3 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. The associated equipment shall be set to operate within the following limits for compliance with Telecom's Specifications:

   a There shall be no more than 10 call attempts to the same number within any 30 minute period for any single manual call initiation, and

   b The equipment shall go on-hook for a period of not less than 30 seconds between the end of one attempt and the beginning of the next call attempt.

4 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. In order to operate within the limits for compliance with Telecom's specifications, the associated equipment shall be set to ensure that automatic calls to different numbers are spaced such that there is not less than 5 seconds between the end of one call attempt and the beginning of another.

5 This equipment shall not be set up to make automatic calls to Telecom's 111 Emergency Service.

For modem with approval number PTC 211/01/030

1 The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

2 This equipment is not capable, under all operating conditions, of correct operation at the higher speeds for which it is designed. Telecom will accept no responsibility should difficulties arise in such circumstances.

3 This device is equipped with pulse dialing while the Telecom standard is DTMF tone dialing. There is no guarantee that Telecom lines will always continue to support pulse dialing.

4 Use of pulse dialing, when this equipment is connected to the same line as other equipment, may give rise to bell tinkle or noise and may also cause a false answer condition. Should such problems occur, the user should NOT contact the telecom Fault Service.

5 This equipment may not provide for the effective hand-over of a call to another device connected to the same line.

6 Under power failure conditions this appliance may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use.

7 Some parameters required for compliance with Telecom's Telepermit requirements are dependent on the equipment (PC) associated with this device. The associated equipment shall be set to operate within the following limits for compliance with Telecom's specifications, the associated equipment shall be set to ensure that calls are answered between 3 and 30 seconds of receipt of ringing.

8 This equipment shall not be set up to make automatic calls to Telecom's 111 Emergency Service.

Important safety instructions

Read these instructions carefully. Save them for future reference.

1 Follow all warnings and instructions marked on the product.

2 Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

3 Do not use this product near water.

4 Do not place this product on an unstable cart, stand, or table. If the product falls, it could be seriously damaged.

5 Slots and openings are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.

6 This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

7 Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.

8 If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.

9 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

10 Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

11 Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

   a When the power cord or plug is damaged or frayed.

   b If liquid has been spilled into the product.

   c If the product has been exposed to rain or water.

   d If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

   e If the product has been dropped or the case has been damaged.

f If the product exhibits a distinct change in performance, indicating a need for service.

12 The notebook PC series uses lithium batteries.
Replace the battery with the same type as the product's battery we recommend in the product specification list. Use of another battery may present a risk of fire or explosion.

13 Warning! Batteries may explode if not handled properly. Do not disassemble or dispose of them in fire. Keep them away from children and dispose of used batteries promptly.

14 To avoid hazard of unexpected electrical shock, use the AC adaptor only when the wall socket is properly grounded.

15 Use only the proper type of power supply cord set (provided in your accessories box) for this unit. It should be a detachable type: UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent. Maximum length is 4.6 meters (15 feet).

16 Always disconnect all telephone lines from the wall outlet before serving or disassembling this equipment.

17 Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.

Laser compliance statement

The CD or DVD drive used with this computer is a laser product.
The CD or DVD drive's classification label (shown below) is located on the drive.

CLASS 1 LASER PRODUCT
CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.

APPAREIL A LASER DE CLASSE 1 PRODUIT
LASERATTENTION: RADIATION DU FAISCEAU LASER INVISIBLE EN CAS D'OUVERTURE. EVITTER TOUTE EXPOSITION AUX RAYONS.

LUOKAN 1 LASERLAITE LASER KLASSE 1
VORSICHT: UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHLL AUSSETZEN

PRODUCTO LÁSER DE LA CLASE I
ADVERTENCIA: RADIACIÓN LÁSER INVISIBLE AL SER ABIERTO. EVITE EXPONERSE A LOS RAYOS.

ADVARSEL: LASERSTRÅLING VEDÅBNING SE IKKE IND I STRÅLEN.

VARO! LAVATTAESSA OLET ALTTINA LASERSÅTEILYLLE.
VARNING: LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD ÅLÅ TUIJOTA SÅTEESEENSTIRRA EJ IN I STRÅLEN

VARNING: LASERSTRÅLNING NAR DENNA DEL ÅR ÖPPNADSTIRRA EJ IN I STRÅLEN

ADVARSEL: LASERSTRÅLING NAR DEKSEL ÅPNESSTIRR IKKE INN I STRÅLEN

LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

Macrovision copyright protection notice

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Radio device regulatory notice

Note: Below regulatory information is for models with wireless LAN and/or Bluetooth only.

General

This product complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. Depending on configurations, this product may or may not contain wireless radio devices (such as wireless LAN and/or Bluetooth modules). Below information is for products with such devices.

European Union (EU)

This device complies with the essential requirements of the European Council Directives listed below:

73/23/EEC Low Voltage Directive

- **EN 60950**

89/336/EEC Electromagnetic Compatibility (EMC) Directive

- **EN 55022**
- **EN 55024**
- **EN 61000-3-2/-3**

99/5/EC Radio & Telecommunications Terminal Equipment (R&TTE) Directive

- **Art.3.1a) EN 60950**
- **Art.3.1b) EN 301 489 -1/-17**
- **Art.3.2) EN 300 328-2**
- **Art.3.2) EN 301 893 *applies to 5 GHz only**

List of applicable countries

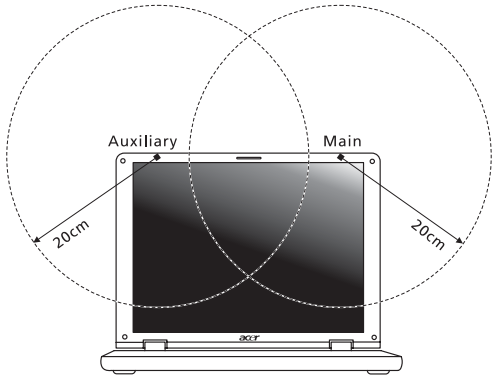
EU member states as of May 2004 are: Belgium, Denmark, Germany, Greece, Spain, France, Ireland, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland, Sweden, United Kingdom Estonia, Latvia, Lithuania, Poland, Hungary, Czech Republic, Slovak Republic, Slovenia, Cyprus and Malta. Usage allowed in the countries of European Union, as well as Norway, Switzerland, Iceland and Liechtenstein. This device must be used in strict accordance with the regulations and constraints in the country of use. For further information, please contact local office in the country of use.

The FCC RF safety requirement

The radiated output power of the wireless LAN Mini PCI Card and Bluetooth card is far below the FCC radio frequency exposure limits. Nevertheless, the notebook PC series shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

1 Users are requested to follow the RF safety instructions on wireless option devices that are included in the user's manual of each RF option device.

Caution: To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm (8 inches) must be maintained between the antenna for the integrated wireless LAN Mini PCI Card built in to the screen section and all persons.



Note: The Acer wireless Mini PCI adaptor implements a transmission diversity function. The function does not emit radio frequencies simultaneously from both antennas. One of the antennas is selected automatically or manually (by users) to ensure good quality radiocommunication.

2 This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

3 High power radar are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

4 An improper installation or unauthorized use may cause harmful interference to radio communications. Also any tampering of the internal antenna will void the FCC certification and your warranty.

Canada - Low power license-exempt radio communication devices (RSS-210)

a Common information
Operation is subject to the following two conditions:
1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

b Operation in 2.4 GHz band
To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

c Operation in 5 GHz band

- The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.
- High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz and these radars could cause interference and/or damage to LELAN (Licence-Exempt Local Area Network) devices.

Exposure of humans to RF fields (RSS-102)

The notebook PC series employs low gain integral antennas that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website at **www.hc-sc.gc.ca/rpb**.

Federal Communications Comission Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

The following local manufacturer/importer is responsible for this declaration:

Product name:	Notebook personal computer
Model number:	ZL3
Machine type:	Extensa 410xxx
SKU number:	Extensa 410xxx ("x" = 0 - 9, a - z, or A - Z)
Name of responsible party:	Acer America Corporation
Address of responsible party:	2641 Orchard Parkway San Jose, CA 95134 USA
Contact person:	Mr. Young Kim
Tel:	408-922-2909
Fax:	408-922-2606

Declaration of Conformity for CE Marking

Name of manufacturer:	Beijing Acer Information Co., Ltd.
Address of manufacturer:	Huade Building, No.18, ChuangYe Rd., ShangDi Zone, HaiDian District Beijing PRCE marking
Contact person:	Mr. Easy Lai
Tel:	886-2-8691-3089
Fax:	886-2-8691-3000
E-mail:	easy_lai@acer.com.tw
Declares that product:	Notebook PC
Trade name:	Acer
Model number:	ZL3
Machine type:	Extensa 410xxx
SKU number:	Extensa 410xxx ("x" = 0 - 9, a - z, or A - Z)

Is in compliance with the essential requirements and other relevant provisions of the following EC directives.

Reference No.	Title
89/336/EEC	Electromagnetic Compatibility (EMC directive)
73/23/EEC	Low Voltage Directive (LVD)
1999/5/EC	Radio & Telecommunications Terminal Equipment Directive (R&TTE)

The product specified above was tested conforming to the applicable Rules under the most accurate measurement standards possible, and all the necessary steps have been taken and are in force to assure that production units of the same product will continue to comply with these requirements.

Easy Lai

Easy Lai, Director
Qualification Center
Product Assurance

03/08/2005

Date

English

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